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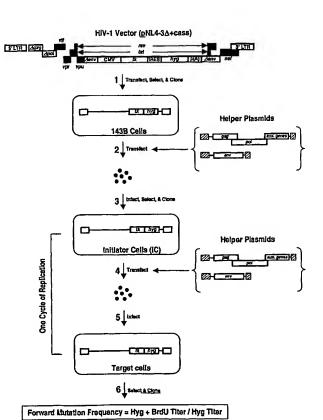
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(57) Abstract: Lentiviral-based retrovirus vectors and an in vivo mutation rate assay employing them. More particularly, an assay for directly determining the in vivo mutation rate of HIV-1.

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